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### Vessel extraction techniques and algorithms: A survey

C Kirbas, FKH Quek - Third IEEE Symposium on Bioinformatics and ..., 2003 - [ieeexplore.ieee.org](#)  
... Sethian developed a computationally efficient Fast **Marching** Method (FMM ... cubic B-spline and the **cross-section** swept is always in the plane **orthogonal** to the ...

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### [PDF] ► Model-based quantitation of 3-D magnetic resonance angiographic images

AF Frangi, WJ Niessen, RM Hooijgeveen, T ... - IEEE Transactions on Medical Imaging, 1999 - [tecn.upf.es](#)  
... along the central **vessel** axis and **orthogonal** to the ... a)]. This is accomplished using **marching** cubes [43 ... radius while sweeping a circular **cross section** along the ...

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### Geometric modeling of the human normal cerebral arterial system

I Volkau, W Zheng, R Balmouratov, A Aziz, ... - IEEE transactions on medical imaging, 2005 - [ieeexplore.ieee.org](#)  
... The **Marching** Cubes [1] is a popular method for ... of centerline are enumerated according to this **direction**. ... it is known that: 1) **Orthogonal cross section** of a ...

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### [PDF] ► A review of vessel extraction techniques and algorithms

C Kirbas, F Quek - ACM Computing Surveys, 2004 - Citeseer  
... These are **orthogonal**. ... Page 16. of the gradient and in the **directions** of the minimum and the maximum curvature. ... All local maxima, for each **vessel cross section**, ...

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### On geometric modeling of the human intracranial venous system

I Volkau, TT Ng, Y Marchenko, WL Nowinski - IEEE Transactions on Medical Imaging, 2008 - [ieeexplore.ieee.org](#)  
... of the segmented data using the **marching** cubes algorithm ... two models to fit the **cross section (orthogonal** to the ... the centerline point of the **cross section** as the ...

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### [PDF] ► Model-based detection of tubular structures in 3D images

K Krissian, G Malandain, N Ayache, R Vaillant ... - Computer Vision and Image Understanding, 2000 - Citeseer  
... Lines [43, 44] derived from the **Marching** cubes [25 ... define at each point an orientation **orthogonal** noted  $j$  to ... and in the plan of the **cross-section** that contains ...

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### Extracting branching tubular object geometry via cores- ► [unc.edu](#) [PDF]

Y Fridman, SM Pizer, S Aylward, E Bullitt - Medical Image Analysis, 2004 - Elsevier  
... small branch size ( $0.1 \times$  the **cross-sectional** area ... the **marching** algorithm presented in **Section 2** gains ... now march in two mutually **orthogonal directions** that are ...

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### [CITATION] Recent developments in a ship stern flow prediction code

M Hoekstra - ... the Fifth International Conference on Numerical Ship ...

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### Quantitation of vessel morphology from 3D MRA- ► [kfupm.edu.sa](#) [PDF]

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Medical image processing apparatus, and medical image processing method

K Matsumoto - US Patent App. 10/816,978, 2004 - Google Patents

... REGION PR1 n 3 : UNIT VECTOR **PERPENDICULAR** TO REGION ... **VESSEL** IMAGE CLARIFYING  
PROCESS

EXTRACT UNIT **VESSEL** IMAGE c ... X- FIG.35B HT JDR ,Vt **MARCHING DIRECTION** CIM ...

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[PDF] ► Extracting Branching Object Geometry via Cores

Y Fridman - 2004 - cs.unc.edu

... I demonstrate the performance of the tubular core methods by extracting blood  
**vessel** ... variable branching structure such as blood **vessel** trees. ...

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[PDF] ► SOLUTION ADAPTIVE MESHING STRATEGIES

NTS Kasmai - 2008 - sweethypocrisy.com

... 2.3 The extent surface is defined by lofting between two closed curves on planes  
**perpendicular** to the vortex axis (left). ... lies **perpendicular** to the core line. ...

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Automatic 5-axis NC toolpath generation

SE Sarma, M Balasubramaniam - 2001 - dspace.mit.edu

Page 1. Automatic 5-axis NC toolpath generation BY Mahadevan Balasubramaniam

B. Tech., Indian Institute of Technology, Madras (1997 ...

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### Fast delineation and visualization of **vessels** in 3-D angiographic images

O Wink, WJ Niessen, MA Viergever - IEEE Transactions on Medical Imaging, 2000 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... JD Furst, S. Pizer, and D. Eberly, "Marching cores: A ... of width, con- trast and tangential **direction** in 2D ... V. Prinnet and O. Monga, "Vessel representation in ...

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### [PDF] ► Improved phase-contrast flow quantification by three-dimensional **vessel** localization

M Zhao, FT Charbel, N Alperin, F Loth, ME ... - Magnetic resonance imaging, 2000 - [tigger.uic.edu](http://tigger.uic.edu)

... the **vessel** diameter, with misalignment of flow **direction** in relation ... mesh was generated by a **marching**- cube algorithm ... For an axial cut, the 2D **vessel** image was ...

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### [PDF] ► Model-based quantitation of 3-D magnetic resonance angiographic images

AF Frangi, WJ Niessen, RM Hooijveen, T ... - IEEE Transactions on Medical Imaging, 1999 - [tecn.upf.es](http://tecn.upf.es)

... since both span the **vessel** in the longitudinal **direction**. ... a)]. This is accomplished using **marching** cubes [43 ... plane **perpendicular** to the central **vessel** axis (Fig ...

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### An interactive cerebral blood **vessel** exploration system- ► [ub.es](http://ub.es) [pdf]

A Puig, D Tost, I Navazo - Proceedings of the 8th conference on Visualization'97, 1997 - [portal.acm.org](http://portal.acm.org)

... **Marching** Cubes (MC) [GKJSO] and Dividing Cubes (DC) [CLKJSO ... by an oriented graph in the **direction** of the ... the graph edges represent the **vessel** sections between ...

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### [PDF] ► A review of **vessel** extraction techniques and algorithms

C Kirbas, F Quek - ACM Computing Surveys, 2004 - CiteSeer

... Page 16. of the gradient and in the **directions** of the minimum and the maximum curvature. Directional ... All local maxima, for each **vessel cross section**, ...

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### Quantitation of **vessel** morphology from 3D MRA- ► [kfupm.edu.sa](http://kfupm.edu.sa) [pdf]

AF Frangi, WJ Niessen, RM Hooijveen, T ... - Lecture Notes in Computer Science, 1999 - Springer

... axis since both span the **vessel** in the longitudinal **direction**. ... is generated (Figure 1(a)) using **marching** cubes [14 ... by manually drawing a central **vessel** axis and ...

Cited by 18 - Related articles - BL Direct - All 7 versions

### Single-seeded coronary artery tracking in CT angiography

G Lavi, J Lessick, PC Johnson, D Khullar - 2004 IEEE Nuclear Science Symposium Conference ..., 2004 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... models, level sets and fast **marching** methods are ... represents the updated mean **vessel direction**, represented by ... deviation of either local or regional **direction**. ...

Cited by 6 - Related articles

### [PDF] ► Scattering computation from the target with lossy background

AR Mallahzadeh, M Soleimani, J Rashed- ... - Progress in Electromagnetics Research - [cela.mit.edu](http://cela.mit.edu)

... defined as the range m. We shall use the **marching** technique to solve the discrete ...

Figure 8. RCS results for the ship in the forward **direction** in 300MHz. ...